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JP2258740A2: METHOD FOR ADSORBING ACID TO CHITOSAN

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Country: **JP Japan**

Kind:

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PC Class: **C07C 63/06; A01N 25/10; A01N 63/02; C07C 51/47; C08B 37/08;
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Abstract: **Purpose:** To obtain a water-soluble chitosan having adsorbed benzoic acid by dissolving benzoic acid in acetone, etc., adding chitosan to the solution, leaving the mixture standing for a prescribed period to effect the impregnation and adsorption of benzoic acid to chitosan, separating the chitosan from the solution and drying the separated chitosan.
Constitution: Chitosan is added to a solution produced by dissolving benzoic acid in acetone, etc., and the mixture is left standing for a night or thereabout to effect the impregnation and adsorption of benzoic acid to chitosan. The chitosan is separated from the solution by filtration, the benzoic acid simply attached to the surface of the chitosan is washed off with acetone, etc., and the chitosan is heated at 50-60°C to evaporate acetone and leave a chitosan containing adsorbed benzoic acid. The product exhibits high water-solubility and can be used as a useful preservative for food, etc., owing to the synergistic effect of the antibacterial property of chitosan and the bacteriostatic property of benzoic acid. The chitosan used in the present process preferably has a viscosity of ≥ 20 cps at 1% concentration or has a deacetylation degree of $\geq 90\%$.
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Other Abstract Info: **CHEMABS 114(05)041315X CAN114(05)041315X DERABS C90-358194
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Foreign References: **(No patents reference this one)**



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